

WHAT IS CLAIMED IS:

1. A high combustion efficiency device for liquid fuel, wherein at least tourmaline particles are filled in a hollow member made of electrically conductive material, in a condition
5 that the tourmaline particles are dispersed in liquid.

2. The high combustion efficiency device for liquid fuel according to Claim 1, wherein the liquid contains electrically conductive particles.

3. The high combustion efficiency device for liquid fuel
10 according to Claim 1 or 2, wherein the high combustion efficiency device is formed to be attachable to at least part of a fuel tank of liquid fuel and a fuel passage extending from the fuel tank to a combustion device of the liquid fuel.

4. The high combustion efficiency device for liquid fuel
15 according to Claim 3, wherein the high combustion efficiency device can surround a fuel pipe.

5. The high combustion efficiency device for liquid fuel according to Claim 3 or 4, wherein a far-infrared ray reflection layer is provided as an outermost layer.

20 6. The high combustion efficiency device for liquid fuel according to Claim 1 or 2, comprising adsorption means attached to an inner wall surface of the fuel tank.

7. The high combustion efficiency device for liquid fuel according to any one of Claims 1 to 3, comprising a device body
25 and a float which allows the device body to float in the fuel in the fuel tank.

8. The high combustion efficiency device for liquid fuel

according to any one of Claims 1 to 7, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

9. The high combustion efficiency device for liquid fuel
5 according to Claim 8, wherein the far-infrared ray generating substance is hard alumite.

10. The high combustion efficiency device for liquid fuel according to Claim 9, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

10 11. The high efficiency combustion device for liquid fuel according to any one of Claims 1 to 10, wherein tourmaline particles are filled in the hollow member, and the tourmaline particles are dispersed and mixed in an electrically conductive solution or electrically conductive gel containing carbon
15 graphite particles.